

GCEP 2004
End-Of-Summer Workshop

August 15, 16, 17, 2004

A G E N D A

August 15, 2004 - Sunday
Afternoon & Evening Session

12:00 – 5:30	<i>Registration</i>	Hotel Lobby
6:30	<i>Dinner</i>	William Penn Room
8:00	<i>Lecture</i>	Jeffrey Gaffney Argonne National Laboratory

* All Meeting Sessions and Breaks will be held in the Potomac III.

GCEP 2004
End- Of- Summer Workshop

August 16, 2004 - Monday
Morning Session

7:00 – 8:00	<i>Continental Breakfast</i>	Hotel Dining Room
8:00 – 8:30	<i>Welcome and GCEP Update</i>	Rickey Petty & Peter Lunn Department of Energy Jeffrey Gaffney Argonne National Laboratory Milton Constantin Oak Ridge Institute for Science & Education
8:30 – 9:00	<i>Storage and turnover of carbon in soil physical fractions following woody plant invasion of grassland</i>	Julia Liao, GREF Fellow Texas A&M University
9:00 – 9:30	<i>Activities of extra cellular enzymes in grassland soil fractions and aggregates</i>	Steven Allison, GREF Fellow Stanford University
9:30 – 10:00	<i>The effect of past land use on plant productivity in southern Appalachian forests</i>	Jennifer Fratterrigo, GREF Fellow University of Wisconsin-Madison
10:00 – 10:30	<i>Break</i>	Potomac III

10:30 – 11:00	<i>A stable isotope dendrochronology approach to reconstructing interannual and interdecadal tropical climate variability</i>	Kevin Anchukatis, GREF Fellow University of Arizona Laboratory of Tree-Ring
11:00 – 11:30	<i>Vigorous ancient oaks or life lessons from old trees</i>	Neil Pederson, GREF Fellow Lamont-Doherty Earth Observatory Tree Ring Laboratory
11:30 – 12:00	<i>Accounting for the uncounted: measured fluxes, actual emissions and ozone initiated oxidation products of terpenes</i>	Anita Lee, GREF Fellow University of California, Berkeley
12:00 – 1:30	<i>Lunch</i>	On Your Own

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August 16, 2004 - Monday
Afternoon Session

1:30 – 1:45	<i>The spatial distribution of initiation and elongation of maize primary roots under water stress</i>	Adam Roddy, SURE Fellow Swarthmore College
1:45 – 2:00	<i>TBA</i>	Esther Zeledon, SURE Fellow Swarthmore College
2:00 – 2:15	<i>The impacts of forest albedo change on carbon sequestration strategies</i>	Maithilee Kunda, SURE Fellow Massachusetts Institute of Technology
2:15 – 2:30	<i>Carbon dioxide respiration and biomass measurements from post-harvest slash piles in Howland, Maine</i>	Amy Gagne, SURE Fellow Rensselaer Polytechnic Institute
2:30 – 3:00	<i>Reconstructing tropical Atlantic paleoclimate from Mg/Ca and oxygen isotopes of planktonic foraminifera</i>	Christa Farmer, GREF Fellow Columbia University
3:00 – 3:30	<i>Break</i>	Potomac III
3:30 – 3:45	<i>Aerosol loading and optical properties during the May 2003 SGP ARM Aerosol IOP</i>	Melissa Melvin, SURE Fellow Northern Illinois University

3:45 – 4:00	<i>The impact of sediment and freshwater runoff on the growth of Porites corals</i>	Anna Goertzen, SURE Fellow Midland Lutheran College Sciences
4:00 – 4:30	<i>Gross primary production is stimulated for Populus species grown under free-air carbon dioxide enrichment</i>	Victoria Wittig, GREF Fellow University of Illinois at Urbana-Champaign
4:30 – 5:00	<i>Indirect effects of climate change: the importance of plant species loss and increased nitrogen availability in a subalpine meadow ecosystem</i>	Molly Smith, GREF Fellow University of California, Berkeley
5:00	<i>Adjourn</i>	
	<i>Dinner</i>	On Your Own

GCEP 2004
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August 17, 2004 - Tuesday
Morning Session

7:00 – 8:30	<i>Continental Breakfast</i>	Hotel Dining Room
8:30 – 9:00	<i>Probabilistic integrated assessment of 'dangerous' climate change</i> Michael Mastrandrea, GREF Fellow Stanford University	
9:00 – 9:30	<i>Studies of reactive nitrogen in the atmosphere using global modeling and stable isotope measurements</i> Meredith Hastings, GREF Fellow Princeton University	
9:30 – 10:00	<i>Determination of Asian air pollution sources, seasonality, and chemical processing during transport to the Northwest Continental United States</i> Heather Price Former GREF Fellow University of Washington	
10:00 – 10:30	<i>Break</i>	Potomac III
10:30 – 10:45	<i>Hydrocarbon air-surface exchange from Prairie Lands at Fermi</i> Anna Beck, SURE Fellow Denison University	
10:45 – 11:00	<i>Analyzing aerosol-cloud interactions using MODIS data</i> Nicholas Chmura, SURE Fellow Cornell University	

11:00 – 11:15	<i>Spatial characterization of methane greenhouse gas emissions from landfills and livestock in California</i>	Joshua Hatch, SURE Fellow Cornell University
11:15 – 11:30	<i>On-road measurements of gasoline and diesel engine emissions in the Caldecott Tunnel</i>	Dan Hooper, SURE Fellow Tulane University
11:30 – 11:45	<i>Temporal and spatial forecasting of chemical phenomena for data collection and sampling by airplane</i>	Benjamin Jelley, SURE Fellow Texas A&M University
11:45 – 12:00	<i>Design and Construction of an ozone chemiluminescent olefin monitor</i>	Robert Judd, SURE Fellow Tulane University
12:00 – 1:30	<i>Lunch</i>	On Your Own

GCEP 2004
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August 17, 2004 - Tuesday
Afternoon Session

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| 1:30 - 2:00 | Hygroscopic and optical properties of organic sea-salt aerosol and consequences for climate forcing | Cynthia Randles, GREF Fellow
Princeton University |
| 2:00 - 2:30 | <i>Ocean studies of alkyl nitrates</i> | Elizabeth Dahl, GREF Fellow
University of California at Irvine |
| 2:30 - 3:00 | <i>Remotely sensed biophysical data and fully coupled general circulation models</i> | Erin Hokanson, SURE Fellow
University of Wisconsin-Madison |
| 3:00 - 3:30 | <i>Break</i> | Potomac III |
| 3:30 - 3:45 | <i>Nauru: aerosol optical depth properties and trends</i> | Edan Lindaman, SURE Fellow
Loyola Marymount University |
| 3:45 - 4:00 | <i>Plant pathogen growth response to elevated CO₂</i> | Elizabeth Hart, SURE Fellow
Willamette University |
| 4:00 - 4:15 | <i>Mass spectroscopy and stable carbon isotopes used as a tool for understanding the terrestrial carbon cycle of an <u>Eucalyptus saligna</u> plantation</i> | Gretchen Miles, SURE Fellow
Alfred University |

4:15 - 4:30	<i>Aerosol size characterization using an aerosol mass spectrometer</i>	Kori Moore, SURE Fellow Utah State University
4:30	<i>Adjourn</i>	
6:30	<i>Dinner</i>	William Penn Room
8:00	<i>The role of science in a changing world</i>	Paul Higgins Former GREF Student University of California, Berkeley

GCEP 2004
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August 18, 2004 - Wednesday

LAST DAY

DEPART FOR HOME

FAREWELL

SEE YOU AGAIN

SUMMER 2005